International Journal of
Satellite Communications

CONTENTS

Volume 18 Numbers 1–6

Volume 18 Number 1 January–February 2000

Metric-based node synchronization of the Viterbi decoder in satellite applications: I. J. Fair and J. M. Brown 1

A narrowband land mobile satellite channel software simulator for urban environments: A. G. Kanatas and P. Constantinou 17

Satellite visibility in Northern Europe based on digital maps: L. E. Bråten 47

Volume 18 Number 2 March–April 2000

COMETS experiments for advanced mobile satellite communications and advanced satellite broadcasting: H. Wakana, H. Saito, S. Yamamoto, M. Ohkawa, N. Obara, H-B. Li and M. Tanaka 63

Call admission control for non-geostationary orbit satellite networks and other capacity-varying networks: J. Siwko and I. Rubin 87

A comparison of copolar and cochannel satellite interference prediction models with experimental results at 11.6 and 20 GHz: J. D. Kanellopoulos, A. D. Panagopoulos and S. N. Livieratos 107

This journal is online
WILEY InterScience®
www.interscience.wiley.com

IJSCEF 18(1–6) 1–460 (2000)
ISSN 0737–2884

Volume 18 Number 3 May–June 2000

The U.S. filings for multimedia satellites: a review: J. V. Evans 121

Ku-band diurnal fade characteristics and fade event duration data from three, two-year, Earth–space radiometric experiments in Equatorial Africa: J. E. Allnutt and F. Haidara 161

Video transmission over mobile satellite systems: S. Dogan, A. H. Sadka and A. M. Kondoz 185

Rapid hydrometeor bistatic scatter calculations using non-orthogonal function expansion of reflectivity profiles: S. P. Sitorus and I. A. Glover 207

Erratum 219

Volume 18 Numbers 4 & 5 July–October 2000

Special Issue: Satellite Navigation and Positioning
Guest Editor: Arno C. Schroth

Editorial: A. C. Schroth 221

Implementation of a European infrastructure for satellite navigation: from system design to advanced technology evaluation: J. P. Provenzano, A. Masson, S. Journo, C. Laramas, J. I. Damidaux and F. Zwolska 223

Galileo—a technical concept for the European satellite navigation system: J. Wolfrum and H. Trautenberg 243

Galileo—an organizational challenge for Europe: D. Brocklebank, J. Spiller and T. Tapsell 259

On signal structures for GNSS-2: R. Schweikert, T. Wörz, R. De Gaudenzi, A. Steingass and A. Dammann 271

Signal design analysis technique for Galileo: P. Norridge, M. O'Donnell and R. Shawyer 293

A time scale for satellite navigation systems: why and how?: J. H. Hahn and P. Tavella 305

Autonomous satellite state determination by use of two-directional links: B. Eissfeller, T. Zink, R. Wolf, J. Hammesfahr, A. Hornbostel, J. H. Hahn and P. Tavella 325

Advanced receiver technology for existing and future satellite navigation systems: M. Maurer, S. Haugg, N. Niklasch and W. Richert 347

A software reconfigurable satellite communication/navigation transceiver ASIC: L. Philips 365

Realization of an end-to-end software simulator for navigation systems: J. Furthner, E. Engler, A. Steingass, M. Angermann, J. Hahn, A. Hornbostel, R. Krämer, H. P. Müller, T. Noack, P. Robertson, S. Schlüter and J. Selva 371

Volume 18 Number 6 November–December 2000

Special Issue: Satellite Broadcasting
Guest Editor: Ulrich Reimers

Editorial: U. Reimers 391

Digital video broadcasting over satellite (DVB-S): a system for broadcasting and contribution applications: M. Cominetti and A. Morello 393

Co-ordination channels for digital satellite news gathering (DSNG): A. Roy 411

ASTRA Digital Radio: high-quality digital audio transmissions via satellite: T. Wrede 427

Digital audio broadcasting (DAB) over non-stationary satellite systems: T. A. Prosch 433

Call for Papers 457

Author Index 459

Key Word Index 460

Abstracted/indexed by 'Current Contents®/Engineering, Computing & Technology (ISI)'; 'Ei COMPENDEX PLUS'; 'Ei Page One'; 'Information Reports & Bibliographies'; 'INSPEC'; 'International Aerospace Abstracts & Database'; 'ISI Alerting Services'; 'Science Citation Index Expanded (also known as SciSearch®) (ISI)'; 'Telecommunications Abstracts'; and 'Telescope Networks'